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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/764,871	01/27/2004	Tong-Wen Shieh	DP4001-PF-253-33012	9401
47164	7590 12/12/2005		EXAMINER	
TONG-WEN SHIEH			PAPE, ZACHARY	
235 CHUNG-HO BOX 8-24			ART UNIT	PAPER NUMBER
TAIPEI HSIE	N, 235		ARTONII	FAFER NUMBER
TAIWAN			2835	
			DATE MAILED: 12/12/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

•	Application No.	Applicant(s)				
Office A-41 O	10/764,871	SHIEH, TONG-WEN				
Office Action Summary	Examiner	Art Unit				
	Zachary M. Pape	2835				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address -				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period was preply reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 27 Ja	nuary 2004.					
2a) ☐ This action is FINAL. 2b) ☒ This	action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 48	53 O.G. 213.				
Disposition of Claims						
4) ☐ Claim(s) 1 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or		·				
Application Papers						
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on 27 January 2004 is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Ex	a)⊠ accepted or b)⊡ objected drawing(s) be held in abeyance. Ser ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail D					

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Cheng (US 2003/0043548) in view of Jang (US 2004/0257764) and further in view of Wang (US 2004/0066622).

With respect to claim 1, Cheng teaches a heat dissipating system of a personal computer having a heat dissipating unit; the heat dissipating unit including a power supply; the power supply including a housing and a cover (Generally 22); a circuit (26) and a turbine fan (21) being placed in a space formed by the housing and cover (As illustrated in Fig 3), the turbine fan having a casing and a set of blades (As illustrated in Fig 5); one lateral side of the turbine fan having an air outlet (213); one side of the housing of the power supply having air outlets (220), receptacles (23'), and a power switch (Below 220 as illustrated in Fig 4); another side of the housing of the power supply having a plurality of holes (Behind 21 and 28, See Fig 4) arranged like a net; wherein the turbine fan dissipates heat generated from the power supply and the personal computer so as to dissipate heat rapidly. Cheng fails to teach that the fan is a double suction turbine fan including upper and lower air inlets. Cheng fails to further teach that the cover of the power supply has a round hole corresponding to the air inlet.

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Jang teaches the use of a double suction turbine fan (20) with upper (221) and lower (217) air inlets. It would have been obvious to one of ordinary skill in the cooling art at the time the invention was made to combine the teachings of Cheng with the teachings of Jang to minimize turbulence flow, reduce noise, and improve efficiency (Paragraph 15).

Additionally, Wang teaches the conventionality of placing a round hole (45) in the cover of a power supply corresponding to an air inlet of a fan (60). It would have been obvious to one of ordinary skill in the cooling art at the time the invention was made to supply an additional air inlet near the fan to provide an additional means for air to enter the housing to prevent the fan from "starving" due to lack of available airflow. Allowing a fan to "breathe" properly increases its efficiency, longevity, and reduces un-necessary repairs.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Zachary M. Pape whose telephone number is 571-272-2201. The examiner can normally be reached on Mon. - Thur. & every other Fri. (8:00am - 5:00pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynn Feild can be reached at 571-272-2092. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

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Business Center (EBC) at 866-217-9197 (toll-free).

ZMP

ANATOLY VORTMAN PRIMARY EXAMINER

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